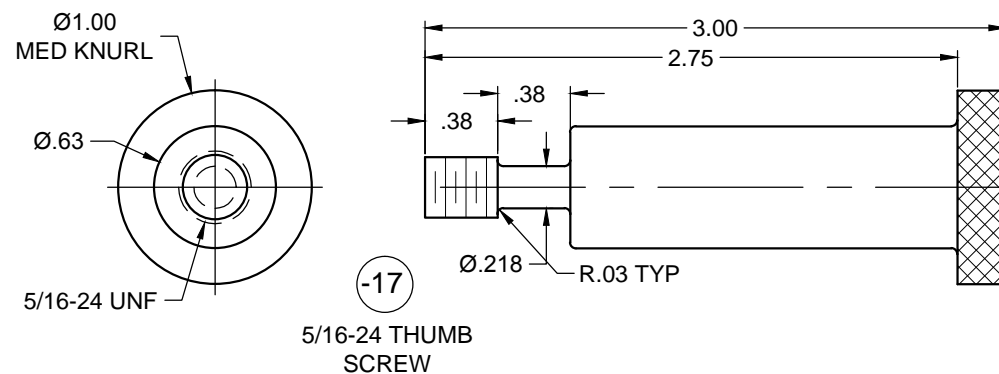

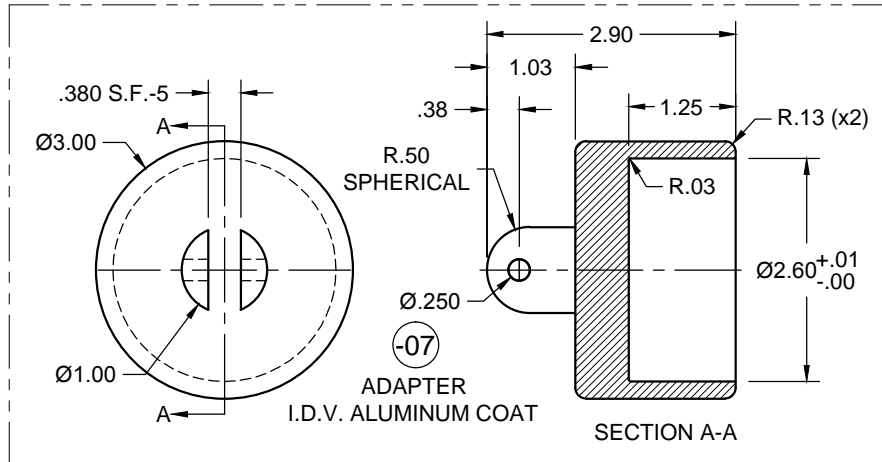


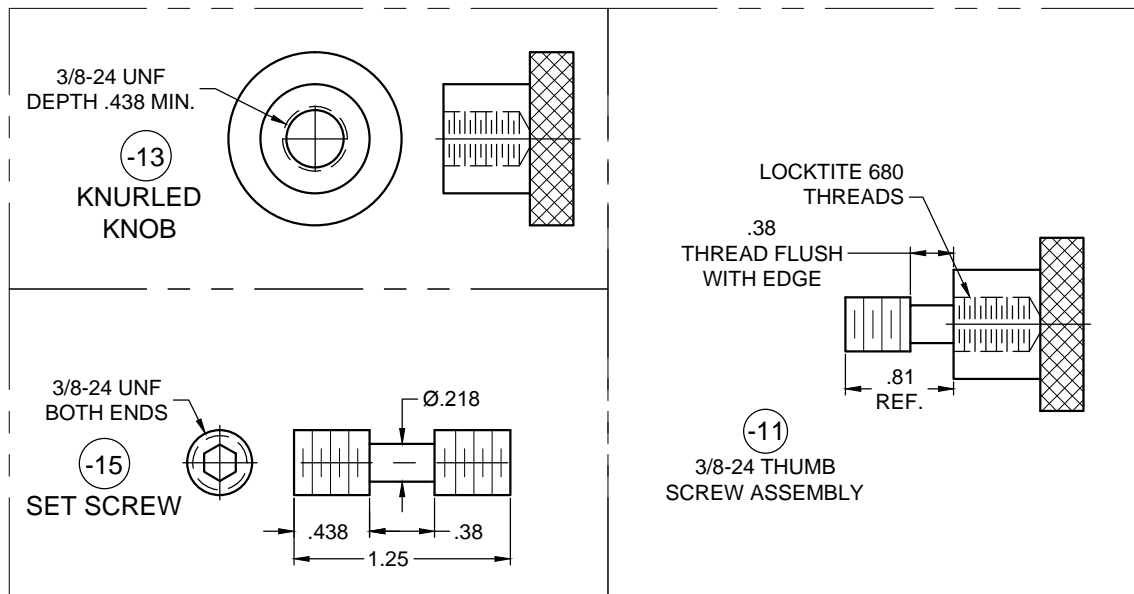
REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CHANGED 1 DEPTH TO .620.	10/4/07	WP	DW
2	CHANGED FROM FIXED POST TO SWIVEL.	10/4/07	WP	DW
3	MADE -1C GROOVE .157 DEEPER WITH R.188 TO FACILITATE MACHINING.	2/5/08	WP	G.E.
4	ADDED BOTTOM TO TITLE & CORRECTED MODEL USED ON.	4/21/08	WP	DW
5	CH'D ANGLE P/N -1A FROM 26° & ASSOCIATED DIM TO .35, MOVED P/N'S -3 THRU -5B TO NEW SHEET 3.	4/21/08	WP	DW
6	SCRAPPED VERSION 1, INTERFERANCE FROM EXHAUST DUCT MADE IT UNUSABLE. CREATED VERSION 2, ONLY -3, 9, AND 11 thru 13 REMAIN THE SAME AS VERSION 1.	8/7/09	WP	DW
7	EXTENDED LENGHT OF -17 .125, IN Ø.218 AREA, TO CORRECT ERROR.	9/16/09	WP	RW



 RED BARN MACHINE	
TITLE SUPPORT STRUT, ENGINE; PARTS	
DWG NO. RBT18646-17	REV 7A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 X ± .1	DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL SHWEIZER 330 & FIRESOOUT
SCALE NTS	DATE 10-03-07 SHEET 5 of 5

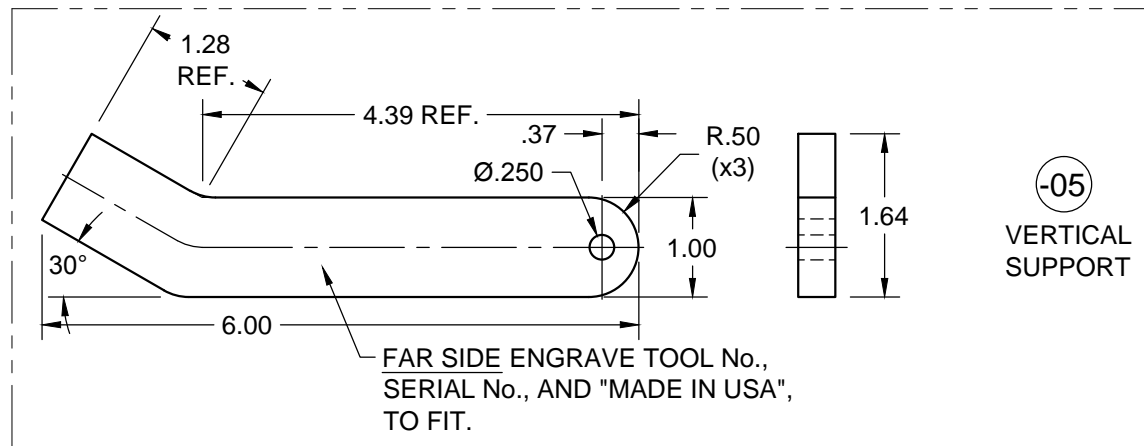
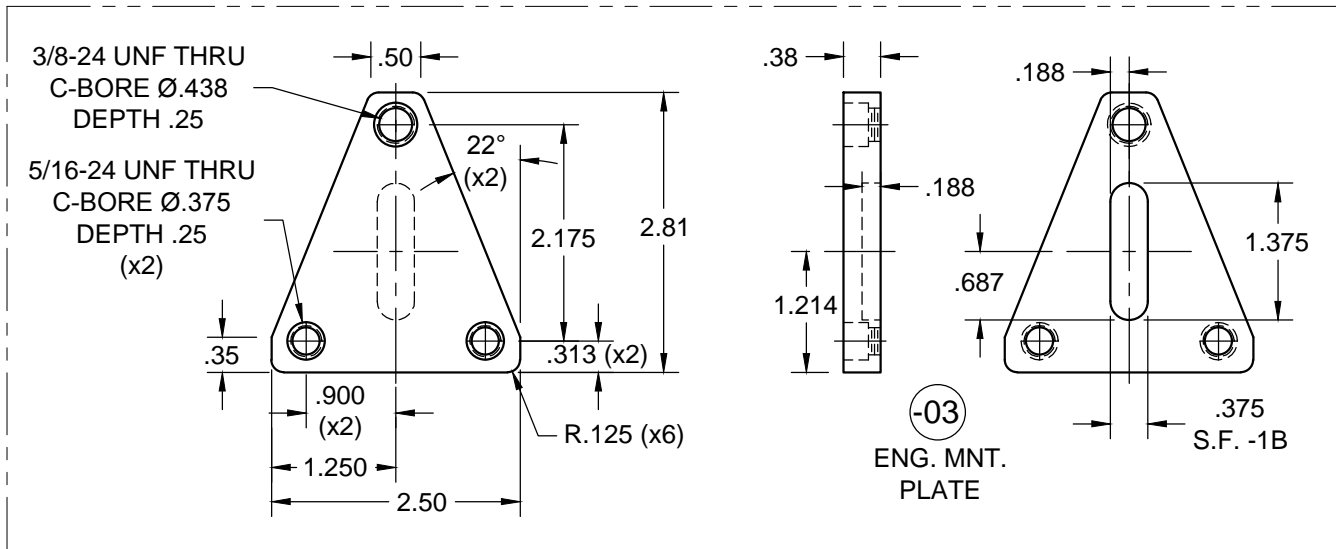


REVISIONS				
REV.	DESCRIPTION	DATE	INITIAL	APPROVED
1	CHANGED 1 DEPTH TO .620.	10/4/07	WP	DW
2	CHANGED FROM FIXED POST TO SWIVEL.	10/4/07	WP	DW
3	MADE -1C GROOVE .157 DEEPER WITH R.188 TO FACILITATE MACHINING.	2/5/08	WP	G.E.
4	ADDED BOTTOM TO TITLE & CORRECTED MODEL USED ON.	4/21/08	WP	DW
5	CH'D ANGLE P/N -1A FROM 26° & ASSOCIATED DIM TO .35, MOVED P/N'S -3 THRU -5B TO NEW SHEET 3.	4/21/08	WP	DW
6	SCRAPPED VERSION 1, INTERFERENCE FROM EXHAUST DUCT MADE IT UNUSABLE. CREATED VERSION 2, ONLY -3, 9, AND 11 thru 13 REMAIN THE SAME AS VERSION 1.	8/7/09	WP	DW
7A	CH'D P/N -11 DIM TO .81 REF. , CH'D LOCKTITE FROM 222MS PER W.P.	10/13/09	RJC	RW



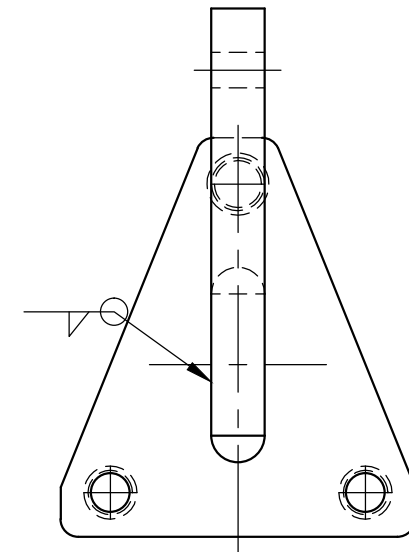
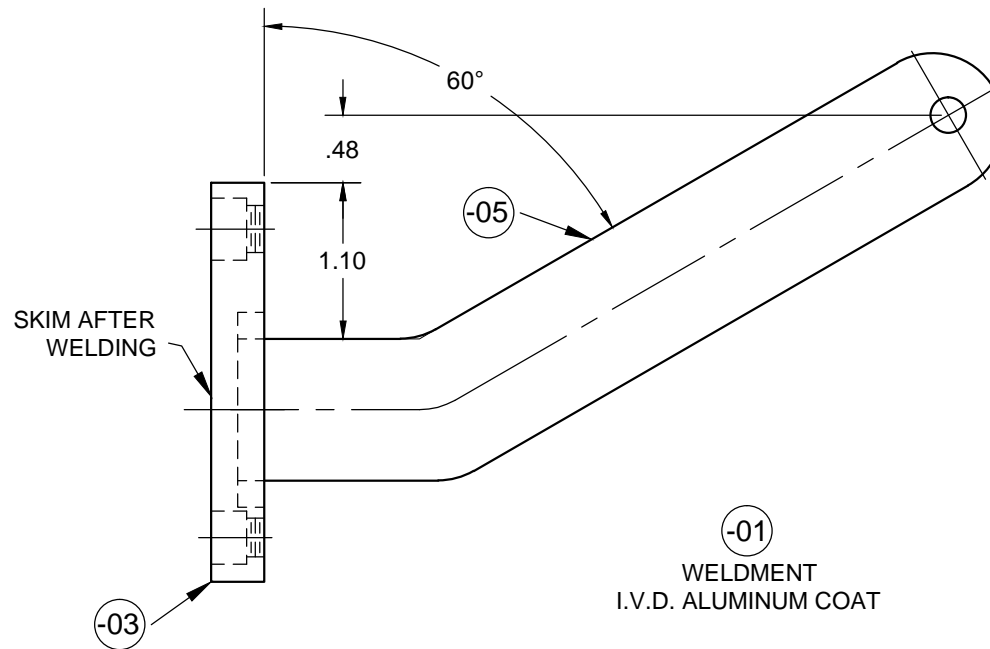
RED BARN MACHINE	
TITLE SUPPORT STRUT, ENGINE; PARTS	
DWG NO. RBT18646-7,11,13, & 15	REV 7A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	FRACTIONS ± 1/32 ANGLES ± 5°
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES 015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE NTS	DATE 10-03-07 SHEET 4 of 5

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CHANGED 1 DEPTH TO .620.	10/4/07	WP	DW
2	CHANGED FROM FIXED POST TO SWIVEL.	10/4/07	WP	DW
3	MADE -1C GROOVE .157 DEEPER WITH R.188 TO FACILITATE MACHINING.	2/5/08	WP	G.E.
4	ADDED BOTTOM TO TITLE & CORRECTED MODEL USED ON.	4/21/08	WP	DW
5	CH'D ANGLE P/N -1A FROM 26° & ASSOCIATED DIM TO .35, MOVED P/N'S -3 THRU -5B TO NEW SHEET 3.	4/21/08	WP	DW
6	SCRAPPED VERSION 1, INTERFERENCE FROM EXHAUST DUCT MADE IT UNUSABLE. CREATED VERSION 2, ONLY -3, 9, AND 11 thru 13 REMAIN THE SAME AS VERSION 1.	8/7/09	WP	DW
7	ADDED ENGRAVING NOTES TO -05.	9/24/09	WP	RW



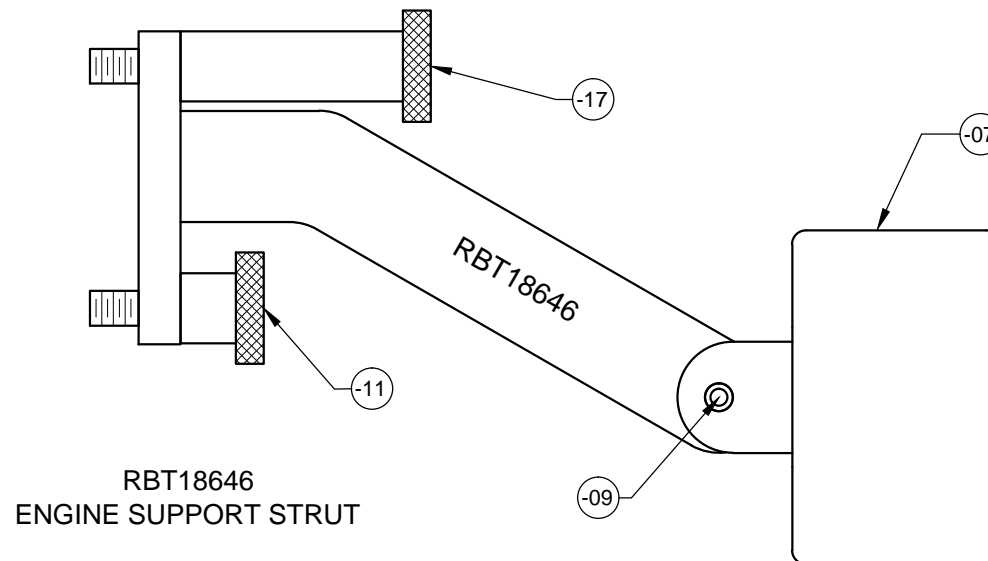
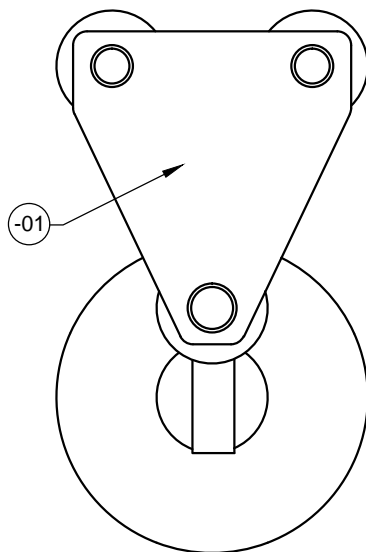
RED BARN MACHINE	
TITLE SUPPORT STRUT, ENGINE; PARTS	
DWG NO. RBT18646-3 & 5	REV 7A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° X ± .1	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE NTS	DATE 10-03-07 SHEET 3 of 5
DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH SPEC SEE WELDMENT USED ON MODEL SHWEIZER 330 & FIRESOUL	

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CHANGED 1 DEPTH TO .620.	10/4/07	WP	DW
2	CHANGED FROM FIXED POST TO SWIVEL.	10/4/07	WP	DW
3	MADE -1C GROOVE .157 DEEPER WITH R.188 TO FACILITATE MACHINING.	2/5/08	WP	G.E.
4	ADDED BOTTOM TO TITLE & CORRECTED MODEL USED ON.	4/21/08	WP	DW
5	CH'D ANGLE P/N -1A FROM 26° & ASSOCIATED DIM TO .35, MOVED P/N'S -3 THRU -5B	4/21/08	WP	DW
6	SCRAPPED VERSION 1, INTERFERENCE FROM EXHAUST DUCT MADE IT UNUSABLE. CREATED VERSION 2, ONLY -3, 9, AND 11 thru 13 REMAIN THE SAME AS VERSION 1.	8/7/09	WP	RW



RED BARN MACHINE	
TITLE SUPPORT STRUT, ENGINE; WELDMENT	
DWG NO. RBT18646-1	REV 7A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: PERRITT APPROVED HEAT TREAT FINISH I.V.D. ALUMINUM SPEC USED ON MODEL SHWEIZER 330 & FIRESOUL
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SCALE NTS DATE 10-03-07 SHEET 2 of 5

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CHANGED 1 DEPTH TO .620.	10/4/07	WP	DW
2	CHANGED FROM FIXED POST TO SWIVEL.	10/4/07	WP	DW
3	MADE -1C GROOVE .157 DEEPER WITH R.188 TO FACILITATE MACHINING.	2/5/08	WP	G.E.
4	ADDED BOTTOM TO TITLE & CORRECTED MODEL USED ON.	4/21/08	WP	DW
5	CH'D ANGLE P/N -1A FROM 26° & ASSOCIATED DIM TO .35, MOVED P/N'S -3 THRU -5B TO NEW SHEET 3.	4/21/08	WP	DW
6	SCRAPPED VERSION 1, INTERFERENCE FROM EXHAUST DUCT MADE IT UNUSABLE. CREATED VERSION 2, ONLY -3, 9, AND 11 thru 13 REMAIN THE SAME AS VERSION 1.	8/7/09	WP	DW
7	EXTENDED LENGHT OF -17 .125, IN Ø.218 AREA, TO CORRECT ERROR. ADDED ENGRAVING NOTES TO -05.	9/16/09	WP	RW
7A	CH'D P/N -11 DIM TO .81 REF. , CH'D LOCKTITE FROM 222MS PER W.P.	10/13/09	RJC	RW



RBT18646
ENGINE SUPPORT STRUT

NOTES

1. USED FOR FIRE SCOUT XSMN., ENGINE SUPPORT WHEN REMOVING TRANSMISSION.

ASSY QTY	ASSY QTY	ASSY QTY	B/D	PART #	TOTAL QTY	DESCRIPTION	MATERIAL	B/O INFORMATION SPECIFICATIONS OR	Pg.
		1		-1	1	WELDMENT			2
		1		-3		ENGINE MOUNT PLATE	1018	3/8 x 2-1/2 x 3	3
		1		-5		TAB	1018	3/8 x 1-3/4 x 6	3
				-7	1	ADAPTER	12L14	Ø3 x 3-1/8	4
			B/D	-9	1	ROLL PIN	STEEL	Ø1/4 x 1	1
				-11	1	3/8-24 THUMB SCREW ASSY.			4
		1	W/D	-13		KNURLED KNOB		MCMaster-CARR #60205K35	4
		1	W/D	-15		SOCKET HEAD SET SCREW	S.S.	3/8-24 x 1-1/4	4
				-17	2	5/16-24 THUMB SCREW	304 S.S.	Ø1 x 3	5
ASSY -	ASSY -11	ASSY -1							

RED BARN MACHINE	
TITLE BOTTOM SUPPORT STRUT, ENGINE	
DWG NO.	RBT18646
REV	7A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS .XXX ± .005 FRACTIONS ± 1/32	
XX ± .01 ANGLES ± 5°	
X ± .1	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	NTS
DATE	10-03-07
SHEET	1 of 5
DRAWN BY: PERRITT	
APPROVED	
HEAT TREAT	
FINISH SPEC I.V.D. ALUMINUM -01 & 07	
USED ON MODEL	
SHWEIZER 330 & FIRESOULT	

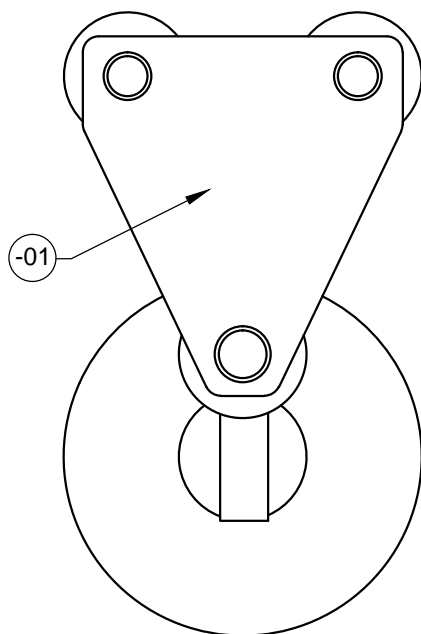
NOT APPROVED FOR PRODUCTION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

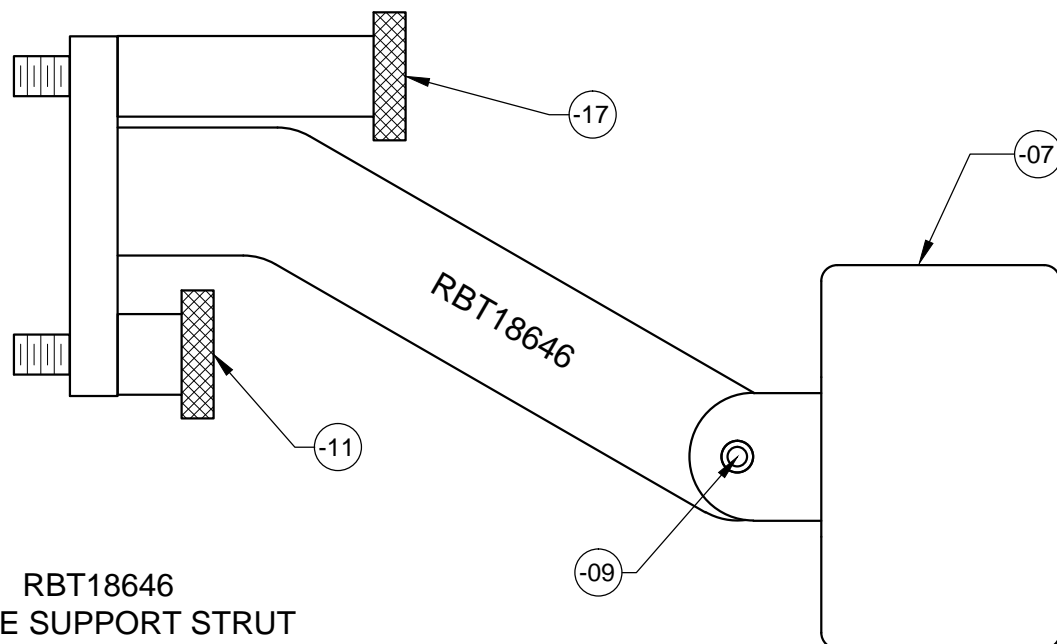
PART #	QTY	DESCRIPTION
-1	1	--

DRAWN BY: PERRITT	<div><div>RB</div>RED BARN MACHINE</div>		
CHECKED	TITLE		
HEAT TREAT FINISH SPEC	TITLE		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± .5° .X ± .1	DWG NO. PART #		REV.
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SCALE NTS	DATE 1-28-06	SHEET 1 of 1

USED ON MODEL
?



RBT18646
ENGINE SUPPORT STRUT



RED BARN MACHINE
190 S. DANEBO AVE.
Eugene, Oregon 97402
(541) 344-9953; fax (541) 344-3863
e-mail; sales@redbarn.net

RED BARN MACHINE		
TITLE		
FIRE SCOUT ENGINE SUPPORT STRUT		
DWG NO.		
RBT18646		
PART #	QTY	DESCRIPTION
-01	1	WELDMENT
-07	1	ADAPTER
-09	1	ROLL PIN
-11	1	3/8-24 THUMB SCREW
-17	2	5/16-24 THUMB SCREW

(RB) RED BARN MACHINE

TITLE INSPECTION & TESTING PROCEDURES FOR THE
FIRE SCOUT ENGINE SUPPORT STRUT ASSEMBLY

TOOL NO. RBT18646-TEST

APPROPRIATE SHACKLES
AND CHAINS FOR WEIGHT

RBT18646-F02

RBT18646

RBT18646-F01

APPROPRIATE SHACKLE
FOR WEIGHT

400 lb.
WEIGHT

RED BARN MACHINE

190 S. DANEBO AVE., Eugene, Oregon 97402
(541) 344-9953; fax (541) 344-3863
e-mail; sales@redbarn.net

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INSPECTION & TESTING PROCEDURES FOR THE RBT18646 ENGINE SUPPORT STRUT ASSEMBLY. THIS ASSEMBLY IS DESIGNED TO SUPPORT THE THE FIRE SCOUT ENGINE ASSEMBLY, SUPPORTED BY A JACKING UNIT, DURING MAINTENANCE PROCEDURES. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

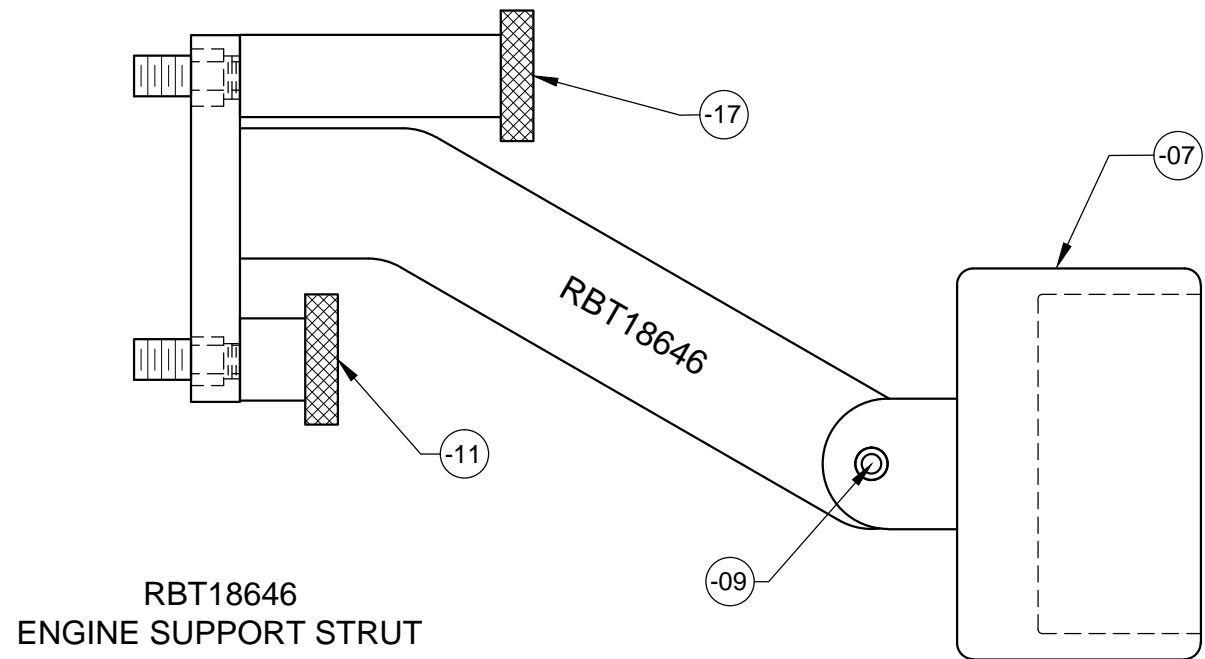
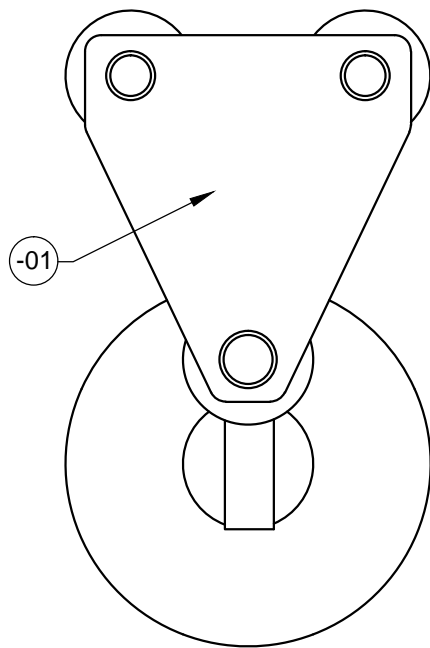
91 DAY INSPECTION:

1. CLEAN ENTIRE UNIT AND REMOVE CORROSION.
2. CHECK THE PIN AREA FOR STRESS CRACKS, BENDING, OR DISTORTIONS.
3. CHECK THE WELDS FOR ANY CRACKS OR DISTORTIONS.
4. CHECK ALL BOLTS FOR DAMAGED THREADS, STRESS CRACKS, STRETCHING OR DISTORTIONS.
5. CHECK THE REST OF THE ASSEMBLY FOR ANY DAMAGE CRACKS OR DISTORTIONS.
6. REPAINT IF NECESSARY.

IF ANY OF THE ABOVE CONDITIONS EXIST, OR ARE SUSPECTED OF EXISTING. DO NOT USE THE TOOL UNTIL IT HAS BEEN REPAIRED AND TESTED OR REPLACE.

3 YEAR WEIGHT TESTING:

1. AFTER INSPECTION, SECURELY FASTEN THE RBT18646 ENGINE SUPPORT STRUT ASSEMBLY TO THE RBT18646-F01 TESTING PLATE.
2. USING THE APPROPRIATE SHACKLE (2 TON MINIMUM PREFERRED), ATTACH THE TESTING PLATE TO THE A 400 lb. TESTING WEIGHT.
3. WITH THE SUPPORT STRUT UPSIDE DOWN, PLACE IT IN THE SLOT OF RBT18646-F02 SO THAT THE WEIGHT IS EVENLY DISTRIBUTED; ALSO ATTACH SHACKLES AND CHAIN TO A PROPER LIFTING DEVICE FOR THE GIVEN WEIGHT (2000 lb. MINIMUM PREFERRED).
3. CAREFULLY LIFT THE ATTACHED ASSEMBLIES UNTIL THE TESTING WEIGHT IS APPROXIMATELY 1 FOOT OFF THE GROUND.
4. LEAVE THE WEIGHT SUSPENDED FOR 5 MINUTES. WHILE THE WEIGHT IS SUSPENDED CAREFULLY OBSERVE THE RBT18646 ENGINE SUPPORT STRUT FOR ANY DEFLECTION AND DISTORTIONS.
5. AFTER 5 MINUTES, LOWER AND DISCONNECT THE TESTING WEIGHT, AND SHACKLE. REMOVE THE SUPPORT STRUT FROM BETWEEN THE FORKS.
6. RE-INSPECT THE ENTIRE RBT18646 ENGINE SUPPORT STRUT ASSEMBLY.



RBT18646
ENGINE SUPPORT STRUT

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RED BARN MACHINE		
TITLE		
FIRE SCOUT ENGINE SUPPORT STRUT		
DWG NO.		
RBT18646		
PART #	QTY	DESCRIPTION
-01	1	WELDMENT
-07	1	ADAPTER
-09	1	ROLL PIN
-11	1	3/8-24 THUMB SCREW
-17	2	5/16-24 THUMB SCREW